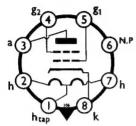


# OUTPUT TETRODE 25V INDIRECTLY HEATED

KT33C

NOVEMBER, 1955

# BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base: International octal.

Bulb: Dome top pear.

Max. overall length:

119 mm.

Max. seated length:
Max. diameter:

104 mm. 45 mm.

# RATINGS

$V_h$	25	13		v
I <sub>h</sub>	0.3	0.6	3	A
Va		200	max.	v
$V_{g2}$		200	max.	v
p <sub>a</sub>		13	max.	W
$g_{m}$ $\begin{cases} at V_{a} = V_{g2} = V_{g1} = -7 \end{cases}$	175	10		mA/V

#### CAPACITANCES

c <sub>in</sub> 19 pF c <sub>out</sub> 12 pF c <sub>a-g1</sub> 1.2	in 19 pF	Court	12	pF	Ca-g1	1.2	p)
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#### TYPICAL OPERATION

Single valve Class A

#### Tetrode connection

TITLE OF TOTAL			
$V_a$	200	150	V
$V_{\mathbf{g}2}$	200	150	V
$V_{g1}$	-13.3	-9.9	v
I <sub>a (0)</sub>	60	44	mA
Ig2 (o)	10	8	mA
Vin (pk)	12.3	8.9	v
$R_{\mathbf{k}}$	190	190	Ω
$\mathbf{R_L}$	3	3	$k\Omega$
$P_{out}$	5	3	$\mathbf{W}$
D	8	8	%

# KT33C

# Push-pull Class AB1 Two valves

#### Tetrode connection

$V_a$	200	150	v
$V_{g2}$	200	150	V
$V_{g1}$	-19.1	-13.2	v
I <sub>a (o)</sub>	113	80	mA
I <sub>g2 (o)</sub>	18	12	mA
Vin (pk) (g-g)	44	24	v
R <sub>k</sub> (per valve)	240	240	Ω
R <sub>L</sub> (a-a)	4	4	$k\Omega$
Pout	15.5	7.5	W
D	7.5	3.9	%

#### GENERAL

For the prevention of parasitic oscillation a series resistor of  $100\,\Omega$  should be connected directly to the screen grid tag of the valve socket.

A control grid series resistor of  $10/50 \text{k}\Omega$  is also recommended.

The maximum permissible D.C. resistance between control grid and anode is limited to  $0.47M\Omega$  for auto-bias, and  $0.1M\Omega$  for fixed bias operation.

# MOUNTING

Any position.

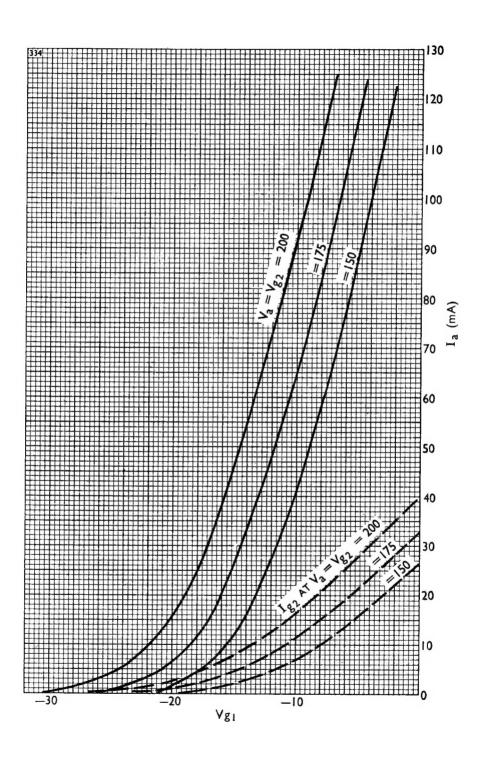
# RETAINING

A retaining device is not normally necessary.

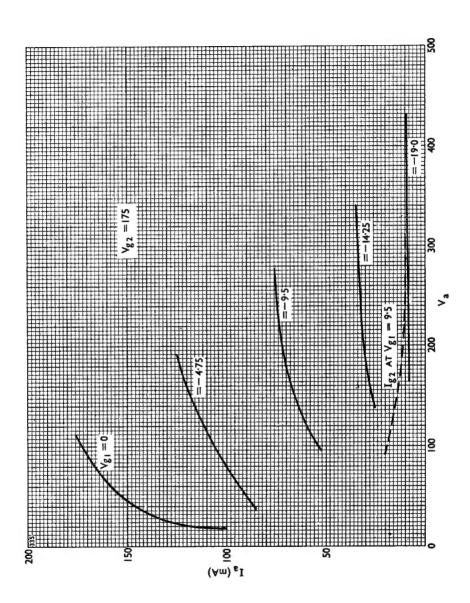
# **VENTILATION**

Adequate ventilation around the bulb should be provided.

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